

Title (en)

FILTER ELEMENT WITH SELF-CONTAINED ELECTROSTATIC BUILDUP PROTECTION

Title (de)

FILTERELEMENT MIT EIGENEM SCHUTZ GEGEN ELEKTROSTATISCHE AUFLADUNG

Title (fr)

ÉLÉMENT FILTRANT À PROTECTION CONTRE L'ACCUMULATION ÉLECTROSTATIQUE AUTONOME

Publication

EP 4031264 A4 20231101 (EN)

Application

EP 20866704 A 20200911

Priority

- US 201962903395 P 20190920
- US 2020050355 W 20200911

Abstract (en)

[origin: WO2021055246A1] One embodiment relates to a filtration system. The filtration system includes a filter housing and a filter element. The filter housing defines a central cavity. The filter element is disposed within the central cavity. The filter element includes a first endcap, a second endcap, and filter media. The second endcap is disposed axially away from the first endcap. The filter media extends axially between the first endcap and the second endcap. The filter media includes a filter media surface. A support element is in contact with the filter media. The support element is conductive. A first pole is along a surface of support element the filter media. The first pole has a first charge. A second pole is downstream of the first pole. The second pole has a second charge. The first charge is opposite in charge to the second charge.

IPC 8 full level

B01D 35/06 (2006.01); **B01D 27/10** (2006.01); **B01D 29/21** (2006.01); **B01D 35/00** (2006.01); **B01D 35/02** (2006.01); **B01D 39/20** (2006.01)

CPC (source: EP US)

B01D 27/06 (2013.01 - EP US); **B01D 27/08** (2013.01 - EP US); **B01D 35/30** (2013.01 - US); **B01D 39/10** (2013.01 - EP); **B01D 39/1623** (2013.01 - EP US); **B01D 2201/50** (2013.01 - EP US); **B01D 2239/0241** (2013.01 - EP)

Citation (search report)

- [X] US 9108128 B2 20150818 - SCHMITZ ANDREAS [DE], et al
- [X] WO 2004009215 A1 20040129 - MANN & HUMMEL GMBH [DE], et al
- [X] DE 3818595 A1 19891207 - FAUDI FEINBAU [DE]
- [X] US 2003057146 A1 20030327 - RICKLE GARY L [US], et al
- [X] WO 9703744 A1 19970206 - PARKER HANNIFIN CORP [US], et al
- [X] FR 2812822 A1 20020215 - KUSS CORP [US]
- See also references of WO 2021055246A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2021055246 A1 20210325; CN 114390941 A 20220422; CN 114390941 B 20230825; EP 4031264 A1 20220727; EP 4031264 A4 20231101; US 2022203269 A1 20220630

DOCDB simple family (application)

US 2020050355 W 20200911; CN 202080063715 A 20200911; EP 20866704 A 20200911; US 202217697097 A 20220317